Papers READ BEFORE THE SOCIETY FROM MARCH 1893 TO JANUARY 1894.

1893.

Mar. 10. Observations of Saturn in 1892. J. Guillaume.

Physical observations of *Mars*, made at the Allegheny Observatory in 1892. J. E. Keeler.

On certain variable Stars having the appearance, visually, of planetary nebulæ. C. E. Peek.

Observations of Mars and a Aquarii near their conjunction on 1892 November 4. John Tebbutt.

Historical note on the parallel plate double-image micrometer. J. H. Poynting.

Observations of the position-angle of the ring of Saturn.

A. Stanley Williams.

On the orbit of \$ 1728. J. E. Gore.

On the orbit of β 416. J. E. Gore.

Photograph of the nebula M. 77 Ceti. Isaac Roberts. Photograph of the cluster M. 103 Cassiopeiæ. Isaac Roberts.

Photographs of Holmes' Comet (f 1892). Isaac Roberts. Observations of Brooks' Comet (g 1892) and Holmes' Comet (f 1892), made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

A micrometer for measuring the plates of the Astrophotographic Chart. W. H. M. Christie.

Apr. 14. Results of double star measures with the 8-inch Equatorial at Windsor, New South Wales, in 1892. John Tebbutt.

Photograph of the cluster M. 34 Persei. Isaac Roberts. Photograph of the nebula H. II. 240 Pegasi. Isaac Roberts.

Comparison of the Greenwich Ten-Year Catalogue (1880) with the Cape Catalogue (1880). H. H. Turner and H. P. Hollis.

Revised places of Comets observed at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

Telescopic Objectives for photographic purposes. H.

Dennis Taylor.

Apr. 14. Observations of Comets, made at the Liverpool Observatory, 1892-93. W. E. Plummer.

Galactic longitudes and latitudes of the brighter stars in a zone of the heavens containing the Milky Way. A. Marth.

On the parallactic inequality of the Earth's motion around the Sun. E. J. Stone.

Observations of the recent conjunction of Saturn and γ Virginis, made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

On the orbit of O\(\Sigma\) 285. J. E. Gore.

May 12. The orbit of τ Cygni (A. G. C. 13). S. W. Burnham.
Photograph of the cluster M. 35 Geminorum. Isaac
Roberts.

Photograph of the cluster M. 36 Aurigæ. Isaac Roberts. Photograph of the cluster M. 37 Aurigæ. Isaac Roberts. Photograph of the cluster M. 50 Monocerotis. Isaac Roberts.

Immersions and emersions of *Jupiter's* Satellite IV. Rev. S. J. Johnson.

Negatives of Jupiter made with the great telescope of the Lick Observatory during the opposition of 1892-93. Professors E. S. Holden, W. W. Campbell, and A. L. Colton.

Note on the determination of the Moon's mass. E. J. Stone.

Ephemeris for physical observations of *Jupiter*, 1893-94.

A. Marth.

Observations of the planets *Mars* and *Ceres*, made at the Royal Observatory, Greenwich, about the time of their recent conjunction. Communicated by the Astronomer Royal.

June 9. The motion of 2 1819. S. W. Burnham.

The orbit of 40 Eridani = Σ 518. S. W. Burnham.

Observations of the satellites of Saturn in 1893. Rev. A. Freeman.

Observations of Comet 1892 d (Brooks), made at the Royal Observatory, Cape of Good Hope. Communicated by H. M. Astronomer.

Ephemeris of the fifth satellite of Jupiter, 1893. A. Marth.

Expression of the radius vector of the Moon's orbit as disturbed by the Sun to the fifth order of small quantities. E. J. Stone.

Nov. 10. The orbit of Sirius. S. W. Burnham.

Probable errors of Greenwich observations of close circumpolar stars. T. Lewis.

Occultation of Saturn, 1893 May 25, observed at Sydney Observatory. Communicated by H. C. Russell.

1893.

Nov. 10. Results of micrometer comparisons of Saturn and γ^1 Virginis. John Tebbutt.

Tables to facilitate the application of Gauss' method of computing secular variations. R. T. A. Innes.

Observations of Comet Rordame-Quénisset (b 1893), made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

Data for computing the positions of the satellites of Jupiter, 1893-94. A. Marth.

The orbit of a Centauri. T. J. J. See.

On the reduction of measures of photographic plates. H. H. Turner.

Observations of phenomena of *Jupiter's* satellites, made at Windsor, New South Wales, in the year 1892. John Tebbutt.

Photograph of the nebula H I. 168 Ursæ Majoris. Isaac Roberts.

Photograph of the nebula H I. 205 Ursæ Majoris. Isaac Roberts.

Method of finding the latitudes of Saturn's belts. Rev. A. Freeman.

Observations of conjuctions of satellite IV. with *Jupiter*. Rev. A. Freeman.

Greenwich mean times of superior and inferior Geocentric Conjunctions of *Jupiter's* satellite *Callisto* for 1894 January to 1895 February. Communicated by the Superintendent of the *Nautical Almanac*.

Observations of Brooks' Comet (c 1893), made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

The secondary colour aberrations of the refracting telescope in relation to vision. H. Dennis Taylor.

Observations of Comet Rordame-Quénisset (b 1893), made at the Liverpool Observatory. W. E. Plummer.

Observations of the Moon, made at the Radcliffe Observatory, Oxford, during the year 1892, and a comparison of the results with the tabular places from Hansen's Lunar Tables. E. J. Stone.

Dec. 8. On the rotation of Saturn. A. S. Williams.

Observations of double stars, made at the Sydney Observatory. Communicated by H. C. Russell.

The orbit of γ Andromedæ (BC). S. W. Burnham.

The variable spectrum of β Lyr α in the region F—h. Rev. W. Sidgreaves.

Note on the spectra of certain red stars. Rev. T. E. Espin.

Two new variable stars. Rev. T. E. Espin.

The periodic variation in the motion of 61 Cygni. H. Jacoby.

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- 1893.
- JohnWindsor measures of a Centauri in 1893. Dec. 8. Tebbutt.
 - To adjust the polar axis of an equatorial telescope for photographic purposes. Dr. A. A. Rambaut.
 - Observations of the variable stars W and X Sagittarii. Lieutenant-Colonel E. E. Markwick.
 - Observations of Brooks' Comet (c 1893), made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.
 - Note on a Star-Correction Facilitator, or an instrument for readily obtaining the products of pairs of numbers, one number being taken from one set (e.g. dayconstants), and the second from another set (e.g. star-constants). T. C. Hudson.

On errors that may arise in estimating star magnitudes by photography. Captain W. de W. Abney.

1894.

- Jan. 12. On the dark poles and bright equatorial belt of the first satellite of Jupiter. E. E. Barnard.
 - Photograph of the nebulæ H I. 56 and 57 Leonis. Isaac Roberts.
 - Photograph of the nebula H I. 200 Leonis min. Isaac Roberts.
 - Observations of occultations of stars by the Moon and of phenomena of Jupiter's satellites, made in the year 1803 at the Royal Observatory, Greenwich. municated by the Astronomer Royal.
 - Observations of Brooks' Comet (c 1893), made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.
 - Mean areas and heliographic latitudes of Sun-spots deduced from photographs taken at the Royal Observatory, Greenwich, at Dehra Dûn (India), and in Mauritius, in the year 1891. Communicated by the Astronomer Royal.
 - On the spectra of certain stars (II.). Rev. T. E. Espin.
 - Some nebulous objects not in the New General Catalogue of Nebulæ. Rev. T. E. Espin.
 - Influence of the Full Moon on the weather. Johnson.
 - Ephemerides of the five inner satellites of Saturn, 1894. A. Marth.
 - Ephemeris of the satellites of Uranus, 1894. ${f Marth.}$
 - Note on the transit of Mercury over the Sun's disc, which takes place for Venus on March 21, 1894; and on the transits of Venus and Mercury which occur for Saturn's system on the same day. A. Marth.

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